

Name: _____

at1113exam: Expand, factor, and solve quadratics (v338)

1. Expand the following expression into standard form.

$$(4x - 3)(4x + 3)$$

2. Expand the following expression into standard form.

$$(4x - 5)^2$$

3. Expand the following expression into standard form.

$$(9x - 8)(5x + 4)$$

4. Solve the equation.

$$(7x + 6)(9x + 5) = 0$$

5. Factor the expression.

$$16x^2 - 81$$

6. Solve the equation with factoring by grouping.

$$15x^2 + 20x + 6x + 8 = 0$$

7. Solve the equation.

$$10x^2 - 53x + 13 = 3x^2 + 4x + 5$$

8. Factor the expression.

$$x^2 + 5x - 36$$